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- Enclose a phrase in double quotes to search for that exact phrase.

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Larry Press
February 1999 **Communications of the ACM**, Volume 42 Issue 2
Full text available: pdf(146.17 KB) html(21.01 KB) Additional Information: full citation, references, index terms

2 Middleware for software leasing over the Internet
H.-A. Jacobsen, O. Günther
November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**
Full text available: pdf(270.10 KB) Additional Information: full citation, references, citings, index terms

3 Atlas: a case study in building a web-based learning environment using aspect-oriented programming
Mik Kersten, Gail C. Murphy
October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10
Full text available: pdf(2.30 MB) Additional Information: full citation, abstract, references, citings, index terms

The Advanced Teaching and Learning Academic Server (Atlas) is a software system that supports web-based learning. Students can register for courses, and can navigate through personalized views of course material. Atlas has been built according to Sun Microsystem's Java™ Servlet specification using Xerox PARC's aspect-oriented programming support called Aspect™. Since aspect-oriented programming is still in its infancy, little experience with employing this paradigm is currently ...

Keywords: aspect-oriented programming, distributed systems, software engineering practices, web-based applications

4 Middleware: a model for distributed system services
Philip A. Bernstein

February 1996 **Communications of the ACM**, Volume 39 Issue 2
Full text available: pdf(238.25 KB) Additional Information: full citation, references, citings, index terms

5 Maintaining pedagogy while implementing new technology: the ICONS project
Elizabeth L. Blake, Rosamaria S. Morales
November 1999 **Proceedings of the 27th annual ACM SIGUCCS conference on User services: Mile high expectations**
Full text available: pdf(108.55 KB) Additional Information: full citation, references, index terms

6 A lightweight, message-oriented application server for the WWW
Ralf-Dieter Schimkat, Stefan Müller, Wolfgang Küchlin
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**
Full text available: pdf(1.37 MB) Additional Information: full citation, references, index terms

Keywords: application integration, application server, message bus, uniform Web interface

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21 Electronic colloquia: idea and practice
Jochen Bern, Christoph Meinel, Harald Sack
September 1998 **Proceedings of the 16th annual international conference on Computer documentation**
Full text available: pdf(764.10 KB) Additional Information: full citation, references, citings, index terms

Keywords: electronic colloquia, electronic colloquium on computational complexity, electronic journals, electronic submission to conferences, information technology, symposium on theoretical aspects in computer science

22 Cryptanalysis of Microsoft's point-to-point tunneling protocol (PPTP)
Bruce Schneier, Mudge
November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**
Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms

23 Regular features: Mobile ad hoc networking and the IETF
Joseph P. Macker, M. Scott Corson
April 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2 Issue 2
Full text available: pdf(620.38 KB) Additional Information: full citation, abstract

This article provides a snapshot of work underway within the Mobile Ad hoc NETworks (MANET) Working Group of the Internet Engineering Task Force (IETF). The article presents some issues currently under discussion on the MANET mailing list, and also summarizes the proceedings of the last MANET WG meeting.

24 A simple packet aggregation technique for fault detection
Akira Kanamaru, Kohei Ohta, Nei Kato, Glenn Mansfield
July 2000 **International Journal of Network Management**, Volume 10 Issue 4
Full text available: pdf(287.09 KB) Additional Information: full citation, abstract, references, index terms

Packet monitoring has become a standard technique in network management and when

applied to a large-scale transit network yields a high volume of packets. To overcome this problem, we discuss the behavior of packets and present a symptom-based packet aggregation technique which is useful for fault detection. Copyright © 2000 John Wiley & Sons, Ltd.

25 Better operating system features for faster network servers

Gaurav Bangs, Peter Druschel, Jeffrey C. Mogul

December 1998 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 3

Full text available: pdf(911.11 KB) Additional Information: full citation, abstract, citings, index terms

Widely-used operating systems provide inadequate support for large-scale Internet server applications. Their algorithms and interfaces fail to efficiently support either event-driven or multi-threaded servers. They provide poor control over the scheduling and management of machine resources, making it difficult to provide robust and controlled service. We propose new UNIX interfaces to improve scalability, and to provide fine-grained scheduling and resource management.

26 A protocol for anonymous communication over the Internet

Clay Shields, Brian Neil Levine

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**

Full text available: pdf(720.32 KB) Additional Information: full citation, references, citings, index terms

27 Session C: New issues: Enforcing service availability in mobile ad-hoc WANs

Levente Buttyán, Jean-Pierre Hubaux

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(750.39 KB) Additional Information: full citation, abstract, references, citings

In this paper, we address the problem of service availability in mobile ad-hoc WANs. We present a secure mechanism to stimulate end users to keep their devices turned on, to refrain from overloading the network, and to thwart tampering aimed at converting the device into a "selfish" one. Our solution is based on the application of a tamper resistant security module in each device and cryptographic protection of messages.

28 Nested Java processes: OS structure for mobile code

Patrick Tullman, Jay Lepreau

September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**

Full text available: pdf(725.45 KB) Additional Information: full citation, citings, index terms

29 Mobile IP and the IETF

Charles E. Perkins

January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1

Full text available: pdf(691.83 KB) Additional Information: full citation, index terms

30 Open-Source Intrusion Detection Tools for Linux: Armed with Linux and Open Source tools, you can even keep an ISP secure.

Bobby S. Wen

October 2000 **Linux Journal**

Full text available: html(20.63 KB) Additional Information: full citation, references, index terms

31 Operating system enhancements to prevent the misuse of system calls

Massimo Bernaschi, Emanuele Gabrielli, Luigi V. Mancini

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**

Full text available: pdf(413.22 KB) Additional Information: full citation, references, citings, index terms

Keywords: Linux, access control database, buffer overflow based attacks, isolation, system calls interception

32 Practical network support for IP traceback

Stefan Savage, David Wetherall, Anna Karlin, Tom Anderson

August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication**, Volume 30 Issue 4

Full text available: pdf(167.15 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a technique for tracing anonymous packet flooding attacks in the Internet back towards their source. This work is motivated by the increased frequency and sophistication of denial-of-service attacks and by the difficulty in tracing packets with incorrect, or ``spoofed'', source addresses. In this paper we describe a general purpose traceback mechanism based on probabilistic packet marking in the network. Our approach allows a victim to identify the network path(s) trave ...

33 An end-to-end approach to host mobility

Alex C. Snoeren, Hari Balakrishnan

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings, index terms

We present the design and implementation of an end-to-end architecture for Internet host mobility using dynamic updates to the Domain Name System (DNS) to track host location. Existing TCP connections are retained using secure and efficient connection migration, enabling established connections to seamlessly negotiate a change in endpoint IP addresses without the need for a third party. Our architecture is secure—name updates are effected via the secure DNS update protocol, while TCP ...

34 KHIP—a scalable protocol for secure multicast routing

Clay Shields, J. J. Garcia-Luna-Aceves

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

We present Keyed HIP (KHIP), a secure, hierarchical multicast routing protocol. We show that other shared-tree multicast routing protocols are subject to attacks against the multicast routing infrastructure that can isolate receivers or domains or introduce loops into

the structure of the multicast routing tree. KHIP changes the multicast routing model so that only trusted members are able to join the multicast tree. This protects the multicast routing against attacks that could form branches to ...

35 FIRE: flexible Intra-AS routing environment
Craig Partridge, Alex C. Snoeren, W. Timothy Strayer, Beverly Schwartz, Matthew Condell, Isidro Castiñeyra
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication**, Volume 30 Issue 4
Full text available: pdf(107.75 KB) Additional Information: full citation, abstract, references, index terms

Current routing protocols are monolithic, specifying the algorithm used to construct forwarding tables, the metric used by the algorithm (generally some form of hop-count), and the protocol used to distribute these metrics as an integrated package. The Flexible Intra-AS Routing Environment (FIRE) is a link-state, intra-domain routing protocol that decouples these components. FIRE supports run-time-pro- grammable algorithms and metrics over a secure link-state distribution protocol. By allow ...

36 Defending against denial of service attacks in Scout
Oliver Spatscheck, Larry L. Peterson
February 1999 **Proceedings of the third symposium on Operating systems design and implementation**
Additional Information: full citation, references, citings, index terms

37 Papers: YESSIR: a simple reservation mechanism for the Internet
Ping Pan, Henning Schulzrinne
April 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 2
Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings

RSVP has been designed to support resource reservation in the Internet. However, it has two major problems: complexity and scalability. The former results in large message processing overhead at end systems and routers, and inefficient firewall processing at the edge of the network. The latter implies that in a backbone environment, the amount of bandwidth consumed by refresh messages and the storage space that is needed to support a large number of flows at a router are too large. We have devel ...

38 Intrusion detection in wireless ad-hoc networks
Yongguang Zhang, Wenke Lee
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**
Full text available: pdf(936.44 KB) Additional Information: full citation, abstract, references, citings, index terms

As the recent denial-of-service attacks on several major Internet sites have shown us, no open computer network is immune from intrusions. The wireless ad-hoc network is particularly vulnerable due to its features of open medium, dynamic changing topology, cooperative algorithms, lack of centralized monitoring and management point, and lack of a clear line of defense. Many of the intrusion detection techniques developed on a fixed wired network are not applicable in this new environment. Ho ...

39 A security model for dynamic adaptive traffic masking
Brenda Timmerman
January 1998 **Proceedings of the 1997 workshop on New security paradigms**

Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings, index terms

40 Active network vision and reality: lessons from a capsule-based system



David Wetherall

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings, index terms

Although active networks have generated much debate in the research community, on the whole there has been little hard evidence to inform this debate. This paper aims to redress the situation by reporting what we have learned by designing, implementing and using the ANTS active network toolkit over the past two years. At this early stage, active networks remain an open research area. However, we believe that we have made substantial progress towards providing a more flexible network layer while ...

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